Future Flight Design			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	VA	SCI.5.5.1.g	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which data are collected, recorded, analyzed, and communicated using proper graphical representations and metric measurements;
Air Transportation Problem	VA	SCI.5.5.1.h	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which predictions are made using patterns from data collected, and simple graphical data are generated;
Future Flight Design			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	VA	SCI.6.6.1.g	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which
Air Transportation Problem	VA	SCI.6.6.1.h	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which data are analyzed and communicated through graphical representation;
Air Transportation Problem	VA	SCI.6.6.9.d	The student will investigate and understand public policy decisions relating to the environment. Key concepts include cost/benefit tradeoffs in conservation policies.
Aircraft Design Problem	VA	SCI.6.6.1.i	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which models and simulations are designed and used to illustrate and explain phenomena and systems;

Aircraft Design Problem	VA	SCI.6.6.9.d	The student will investigate and understand public policy decisions relating to the environment. Key concepts include cost/benefit tradeoffs in conservation policies.
Future Flight Design			
2010 Science			
Standards of Learning			
Virginia Science			
Grades 7-8 (Physical Science)			
Activity/Lesson	**State**	**Standards**	
Air Transportation Problem	VA	SCI.7-8.PS.1.d	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which triple beam and electronic balances, thermometers, metric rulers, graduated cylinders, probeware, and spring scales are used to gather data;
Air Transportation Problem	VA	SCI.7-8.PS.1.j	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which valid conclusions are made after analyzing data;
Air Transportation Problem	VA	SCI.7-8.PS.1.l	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which experimental results are presented in appropriate written form;
Aircraft Design Problem	VA	SCI.7-8.PS.1.b	The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which length, mass, volume, density, temperature, weight, and force are accurately measured;
Aircraft Design Problem	VA	SCI.7-8.PS.10.a	The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include speed, velocity, and acceleration;
Aircraft Design Problem	VA	SCI.7-8.PS.10.b	The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include Newton's laws of motion;
Aircraft Design Problem	VA	SCI.7-8.PS.10.c	The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include work, force, mechanical advantage, efficiency, and power; and

Aircraft Design Problem	VA	SCI.7-8.PS.10.d	The student will investigate and understand the scientific principles of work, force, and motion. Key concepts include technological applications of work, force, and motion.